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(analog optical encryption)

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Optical Encryption System That Uses Phase Conjugation in a ... (070.1170) Fourier
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Photon Echo; **Optical** Tap Delay; Solotons. Example: **Analog Optical Encryption**.
Digital Encryption. ATM at 10Gbps soon; No 40 Gbps on horizon ...
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implemented a phase-only **optical encryption** and decryption system with a
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[Optical encryption interface - US Patent 5793871](#)

An **analog optical encryption** system based on phase scrambling of two-dimensional
optical images and holographic transformation for achieving large ...
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[Welcome to IEEE Xplore 2.0: All-optical encryption for links at 10...](#)

All-optical **encryption** for links at 10 Gbps and above ... detection of a large
bandwidth of **optical analog** data at a high precision digitization rate. ...
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[Secure analog communication system using time and wavelength...](#)

More particularly, the invention relates to an **analog optical** system using ... The
analog signal can be digitized and conventional **encryption** techniques can ...
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[Method and system for encryption of optical signals - Patent 7184553](#)

The proposed method is applicable to **encryption** of both digital and **analog optical**
signals carrying information. Creating the controlled signal dispersion ...
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[Journal of Optical Networking](#)

(070.1170) Fourier optics and **optical** signal processing : **Analog optical** ... T.
Nomura and B. Javidi, ' **Optical encryption** system with a binary key code,' ...
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(analog optical encryption)

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EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	2	"6608721".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/10 20:42
S2	7	"7604255"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 09:27
S3	2	"5390046".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 09:41
S4	593	quantum same cryptography	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 09:44
S5	131	380/256.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 09:45
S6	16277	"380"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 09:45
S7	131	S5 and S6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 09:45
S8	155	S4 and S6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 10:27
S9	4841	optical telecommunication	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 10:28

EAST Search History

S10	20516	(wavelength division multiplexing)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 10:30
S11	259	(wavelength division multiplexing) and wavelength same (gigabits per second)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 11:05
S12	747	(wavelength division multiplexing) and wavelength and (encrypt\$4 or \$2cipher\$4 or scrambl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 11:18
S13	2	"5473696".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 11:09
S14	274	S12 and analog	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 11:10
S15	2	"4866699".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 11:11
S16	5	(wavelength division multiplexing) and wavelength and analog near2 (encrypt\$4 or \$2cipher\$4 or scrambl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 11:27
S17	49	("4588260" "4588255" "4765714" "4779266" "4866699" "4933990" "5024508" "5172258" "5191614" "5274488" "5351324" "5473696" "5479026" "5541756" "5680104" "5793871" "5864625" "5903648" "6002773" "6018582" "6160651" "6219161" B1 "6233075" B1 "6271946" BI "6411417" B1 "6519340").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/08 11:27

EAST Search History

S18	26	("4588260" "4588255" "4765714" "4779266" "4866699" "4933990" "5024508" "5172258" "5191614" "5274488" "5351324" "5473696" "5479026" "5541756" "5680104" "5793871" "5864625" "5903648" "6002773" "6018582" "6160651" "6219161" B1 "6233075" B1 "6271946" B1 "6411417" B1 "6519340").pn.	USPAT	OR	ON	2007/06/10 12:36
S19	1	"6608721".pn.	USPAT	OR	ON	2007/06/08 11:33
S20	558	(optical tapped delay line) and analog near4 (encrypt\$4 or \$2cipher\$4 or scrambl\$4)	USPAT	OR	ON	2007/06/08 18:36
S21	144	(optical tapped delay line) and analog near4 (encrypt\$4 or \$2cipher\$4 or scrambl\$4) and (fiber optic)	USPAT	OR	ON	2007/06/08 11:38
S22	0	"optical tapped delay line" and analog near4 (encrypt\$4 or \$2cipher\$4 or scrambl\$4) and (fiber optic)	USPAT	OR	ON	2007/06/08 11:38
S23	21	"optical tapped delay line"	USPAT	OR	ON	2007/06/08 11:39
S24	22	"optical tapped delay line" or (OTDL)	USPAT	OR	ON	2007/06/08 11:39
S25	1	("optical tapped delay line" or (OTDL)) and (encrypt\$4 or \$2cipher\$4 or scrambl\$4 or cryptography)	USPAT	OR	ON	2007/06/08 11:41
S26	2	"6608721".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 11:42
S27	67	optical adj2 tapped adj2 delay adj2 line	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 14:29
S28	3	(optical adj2 tapped adj2 delay adj2 line) and (encrypt\$3 or \$cipher\$4 or scrambl\$4 or cryptography)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 19:18

EAST Search History

S29	4421	(optical or photon or quantum or pulse or wavelength or light) same signal same (compres\$4 or MPEG or divid\$4) and (encrypt\$3 or \$cipher\$4 or scrambl\$4 or cryptography)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 14:48
S30	388	(optical near signal) same (compres\$4 or MPEG or divid\$4) and (encrypt\$3 or \$cipher\$4 or scrambl\$4 or cryptography)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 14:48
S31	3	(optical near signal) same (compres\$4 or MPEG or divid\$4) and (analog near (encrypt\$3 or \$cipher\$4 or scrambl\$4 or cryptography))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 14:49
S32	0	"optical tapped delay line" same beam near4 split\$4	USPAT	OR	ON	2007/06/08 19:39
S33	21	"optical tapped delay line"	USPAT	OR	ON	2007/06/08 19:49
S34	4	"optical tapped delay line" same split\$4	USPAT	OR	ON	2007/06/08 18:38
S35	15	(optical adj2"tapped adj2 delay adj2 line) and phase modulator	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 19:34
S36	745	"wavelength division multiplexing" and (encrypt\$3 or \$2cipher\$3 or scrambl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 19:53
S37	0	S33 and S36	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 19:37
S38	2	S36 and otdl	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 19:38
S39	0	S33 and "380"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 19:39

EAST Search History

S40	0	S33 and "713"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 19:40
S41	0	optical\$1tapped\$1delay\$1line	USPAT	OR	ON	2007/06/08 19:50
S42	1	optical adj2 tapped adj2 delay\$1line	USPAT	OR	ON	2007/06/08 19:52
S43	33	optical adj2 tapped adj2 dela\$4 adj line	USPAT	OR	ON	2007/06/08 19:53
S44	1	S43 and (encrypt\$3 or \$2cipher\$3 or scrambl\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 19:54
S45	0	380/219,ccls,	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 20:01
S46	30	380/219.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 20:02
S47	50	380/220.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 20:05
S48	1385	380/28.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 20:05
S49	9	("4588260" "4588255" "4765714" "4779266" "4866699" "4933990" "5024508" "5172258" "5191614" "5274488" "5351324" "5473696" "5479026" "5541756" "5680104" "5793871" "5864625" "5903648" "6002773" "6018582" "6160651" "6219161" B1 "6233075" B1 "6271946" BI "6411417" B1 "6519340").pn. and analog	USPAT	OR	ON	2007/06/08 20:19
S50	267	analog near4 optical near3 (encrypt\$4 or \$2cipher\$4 or scrambl\$4 or encod\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 20:21

EAST Search History

S51	30	analog near4 optical near3 (encrypt\$4 or \$2cipher\$4 or scrambl\$4 or encod\$4).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 20:26
S52	2	analog near4 optical near3 (encrypt\$4 or \$2cipher\$4 or scrambl\$4).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/08 20:26
S53	26	("4588260" "4588255" "4765714" "4779266" "4866699" "4933990" "5024508" "5172258" "5191614" "5274488" "5351324" "5473696" "5479026" "5541756" "5680104" "5793871" "5864625" "5903648" "6002773" "6018582" "6160651" "6219161" B1 "6233075" B1 "6271946" BI "6411417" B1 "6519340").pn.	USPAT	OR	ON	2007/06/10 12:36
S54	1	S53 and analog same encryption	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/10 12:37
S55	10	bandwidth same resolution same "50 times"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/10 15:07
S56	15	(split\$4 or divid\$4 or compres\$4) near4 (light or optic\$4 or signal) near8 ("high resolution") same modulator	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/10 16:35
S57	327	transmit\$4 near5 ((gigabit per second) or gps) same optical	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/10 16:41
S58	1	transmit\$4 near5 more near5 (one or "1") near4 ((gigabit per second) or gps) same optical	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/10 16:41
S59	15	(optical or pulses or photun) same modulator near15 sub\$1bands	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/10 17:50

EAST Search History

S60	3	(optical or pulses or photun) same modulator same ((many or plurality or plenty or "50" or "100") near4 sub\$1bands)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/10 17:43
S61	111	(modulator) same ((resolution) near8 MHz)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/10 17:55
S62	111	(modulator) same ((resolution) near8 MHz)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/10 17:55
S63	69	(optical or pulses or photun or light) and (modulator) same (resolution) near8 MHz	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/10 19:16
S64	509	(optical or pulses or photun or light) near3 (plurality or many or multiple) near9 output\$4 near9 (modulator)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/10 19:30
S65	208	(optical or pulses or photun or light) near3 (plurality or many or multiple) near3 output\$4 near3 (modulator)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/10 19:31
S66	141	(optical or pulses or photun) near3 (plurality or many or multiple) near3 output\$4 near3 (modulator)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/10 19:35
S67	24	(optical or pulses or photun) near3 ("n") near output\$4 near3 (modulator)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/10 19:36
S68	2	"6046715".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/10 20:46
S69	2111	modulator same ("liquid crystal array" or MEMS or "II_V" or "III_V")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/10 20:48

EAST Search History

S70	1249	modulator same ("liquid crystal array" or MEMS or "II_V" or "III_V") same optical	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/10 20:48
S71	400	modulator near3 ("liquid crystal array" or MEMS or "II_V" or "III_V") same optical	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/10 20:51
S72	2	"5,311,360".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/06/10 20:51